This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A liquid crystal Liquid Crystal film or layer with homeotropic alignment,

wherein said homeotropic alignment is achieved by an aligning layer on a substrate,

and wherein said aligning layer is an a smooth Al₂O₃ layer with a surface sufficiently smooth such that liquid crystal films formed thereon can be removed in one piece.

- 2. (currently amended) A liquid Liquid crystal film or layer according to claim 1 wherein the substrate is a polymeric material.
- 3. (currently amended) A liquid Liquid crystal film or layer according to claim 2 wherein substrate is a plastic sheet or film.
- 4. (currently amended) A liquid Liquid crystal film or layer according to claim 1 wherein the substrate prior to its coating with the alignment layer or its precursor is subjected to a corona discharge.
 - 5. (cancelled)
 - 6. (cancelled)
 - 7. (cancelled)
 - 8. (cancelled)
- 9. (previously presented) A process of fabricating a homeotropically oriented liquid crystal film or layer according to claim 1 which comprises applying an aligning layer as defined in claim 1 on a substrate.
- 10. (currently amended) An electoptical electrooptical system which contains a liquid crystal film or layer according to claim 1.

2

11. (previously presented) A liquid crystal layer as in claim 1, wherein said aligning layer is a thin transparent Al₂O₃ coating.

- 12. (Cancelled)
- 13. (Cancelled)
- 14. (Cancelled)
- 15. (currently amended) An aligning layer for a liquid crystal film or layer which provides homeotropic alignment, said aligning layer comprising <u>an</u> <u>a smooth</u> Al₂O₃ layer <u>with a surface sufficiently smooth such that liquid crystal films formed thereon can be removed in one piece.</u>
- 16. (previously presented) An aligning layer as in claim 15 which comprises a thin transparent Al₂O₃ coating.
 - 17. (cancelled)
 - 18. (cancelled)
 - 19. (Cancelled)
- 20. (currently amended) A liquid crystal Liquid Crystal film or layer with homeotropic alignment

wherein said homeotropic alignment is achieved by an aligning layer on a substrate,

wherein said aligning layer is an aluminum coating or a smooth Al₂O₃ layer, with a surface sufficiently smooth such that liquid crystal films formed thereon can be removed in one piece,

and wherein the substrate is comprised of plastic.

- 21. (cancelled)
- 22. (cancelled)
- 23. (cancelled).

- 24. (cancelled)
- 25. (cancelled)
- 26. (cancelled)
- 27. (cancelled)
- 28. (cancelled)
- 29. (cancelled)
- 30. (currently amended) A liquid Liquid crystal film with homeotropic alignment wherein said hemitropic homeotropic alignment is achieved by an aligning layer on a substrate wherein said aligning layer is an a smooth Al₂O₃ layer with a surface sufficiently smooth such that liquid crystal films formed thereon can be removed in one piece.
- 31. (currently amended) A liquid Liquid crystal film according to claim 30 wherein the substrate is a polymeric material.
- 32. (currently amended) A liquid Liquid crystal film according to claim 31 wherein the substrate is a plastic sheet or film.
- 33. (currently amended) A liquid Liquid crystal film according to claim 30 wherein the substrate prior to its coating with the alignment layer or its precursor is subjected to a corona discharge.
- 34. (currently amended) <u>A process Process</u>-of fabricating a homeotropically oriented liquid crystal film according to claim 30 which comprises applying an aligning layer as defined in claim 30 on a substrate.
- 35. (currently amended) An electroptical electrooptical system which contains a liquid crystal film according to claim 30.
- 36. (previously presented)A liquid crystal film as in claim 30, wherein said aligning layer is a thin transparent Al₂O₃ coating.

- (currently amended) A liquid Liquid crystal film as in claim 30 37. prepared from a layer comprising one or more polymerizable mesogenic compounds.
- (currently amended) A liquid Liquid crystal film as in claim 30 38. prepared from a mixture comprising reactive mesogenic compounds of formula I Ι

$$P-(Sp-X)_n-MG-R$$
,

wherein

P is a polymerizable group

Sp is a spacer group having 1 to 20 C atoms,

X is a group selected from -O-, -S-, -CO-, -COO-, -OCO-, -OCO- or a single bond;

n is 0 or 1,

MG is a mesogenic or mesogenity supporting group, according to formula II

$$-(A^1-Z^1)_m-A^2-Z^2-A^3-$$
 II

wherein A^1 , A^2

and A³ are independently from each other 1,4-phenylene in which, in addition, one or more CH groups may be replaced by N, 1,4cyclohexylene in which, in addition, one or two non-adjacent CH₂ groups may be replaced by O and/or S, 1,4cyclohexenylene or napththalene-2,6-diyl, it being possible for all these groups to be unsubstituted, mono- or poly-substituted with halogen, cyano or nitro groups or alkyl, alkoxy or acyl groups having 1 to 7 C atoms wherein one or more H atoms may be substituted by F or Cl,

$$Z^1$$
 and Z^2 are each independently -COO-, -OCO-, CH_2CH_2 -, -OCH₂-, -CH₂O-, -CH₂=CH-, -C \equiv C-, -CH=CH-COO-, -CO-CH=CH- or a single bond and is 0, 1 or 2,

and

R is an alkyl radical with up to 25 C atoms which may be unsubstituted, mono-or

polysubstituted by halogen or CN, it being also possible for one or more non-adjacent CH₂ groups to be replaced, in each case independently from one another, by -O-, -S-,-NH-,-N(CH₃)-, -CO-, -COO- -OCO-, -OCO-O-,

-S-CO-, -CO-S- or -C \equiv C- in such a manner that oxygen atoms are not linked directly to one another, or alternatively R is halogen, cyano or has independently one of the meanings given for P-(Sp-X)_n-.

- 39. (currently amended) A liquid Liquid crystal film according to claim 30 wherein the surface of the smooth Al₂O₃ layer is smoother than aluminum oxide coatings obtained by evaporation methods or sputtering.
- 40. (currently amended) A liquid Liquid crystal film or layer according to claim 1 wherein the surface of the smooth Al₂O₃ layer is smoother than aluminum oxide coatings obtained by evaporation methods or sputtering.
- 41 (new) A liquid crystal film or layer with homeotropic alignment, wherein said homeotropic alignment is achieved by an aligning layer on a polymeric substrate,

and wherein said aligning layer is an Al₂O₃ layer with fewer pores than aluminum oxide layers prepared by evaporation methods or sputtering.

42. (new) A liquid crystal film or layer with homeotropic alignment, wherein said homeotropic alignment is achieved by an aligning layer on a substrate,

and wherein said aligning layer comprises a thin transparent Al₂O₃ layer positioned on a thin PET substrate and is suitable for use as transparent food packaging.

6